

ICT

2

Curriculum map

prep 2

Second term





the computer preparation bookvision

The vision of the computer preparation notebook aims to raise the level of the teacher scientifically and educationally and thus raise the educational level (Technology) to be clear and contain all the capabilities that help the teacher manage the class in an appropriate atmosphere, using modern technology tools and taking into account the individual differences of the students

the computer preparation book mission

- Choosing and formulating various objectives (cognitive - skill - emotional), taking into account the integrity of the formulation and the individual differences of students, using modern technology methods.
- Creating an environment that stimulates learning and creativity to raise the level of students in computer science.
- Choosing the best educational, pedagogical and administrative strategies and training them on them and developing them
- Choosing scientific methods and means in teaching and using technology to support and enhance And facilitating the educational process.
- Use a presentation to explain the lesson, simplified and omprehensive, for all points of the lesson
- Using various evaluation methods, taking into account the individual differences of students and taking into account the measurement of goals
- Conclude the lesson in an appropriate and varied manner

Teacher

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Guider

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School manager

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learning outcomes	current curriculum content	Strategy	Teaching aids	calendar methods	Evidence and evidence	enrichment activities
Unit Three: Artificial Intelligence						
Distinguish between the workings of traditional programs and artificial intelligence.	Lesson 1 The Historical Development of Artificial Intelligence	Brainstorming	Electronic board-book-presentation -	Student's Book	Lesson preparation book	Research on Artificial Intelligence
Understand the historical development of artificial intelligence.		Problem Solving				
State the importance of artificial intelligence in solving problems in our lives.		Dialogue and discussion				
Compare human thinking and machine thinking.	Lesson 2 How Machines Think and Change OurWorldOptions ⁹	Dialogue and discussion				Research on Artificial Intelligence
List some examples of applications of artificial intelligence in our lives.		practical training				
Suggest some future applications of artificial intelligence.		Problem solving				
Understand the ethical responsibility in the uses of artificial intelligence.	Lesson 3 Artificial Intelligence Is All Around Us	Brainstorming				Research on Artificial Neural Cells
Suggest as many ideas as possible for using artificial intelligence technology in responsible ways.		Dialogue and discussion				
Suggest some simple projects that employ artificial intelligence responsibly.						
Explain the concept of artificial neurons.	Lesson 4: The Artificial Neural Cell	Brainstorming				Research on Artificial Neural Cells
Identify the components of a neuron and its role in artificial intelligence.		Critical thinking				
Understands how to build and operate an artificial neural network.		Dialogue and discussion				
Recognizes the concept of artificial neural networks.	Lesson 5 The Role of the Neural Cell in Artificial Intelligence	Brainstorming				Research on Artificial Neural Cells
Explains the components of an artificial neural network.		Critical thinking				
Lists as many ideas as possible for neural network applications in our lives.		Dialogue and discussion				
Lists as many ideas as possible for neural network applications in our lives.	Lesson6 Introduction to Data Analysis in Python	cooperative learning				Working with Python
Knows how to import an Excel file containing student grades and view		Critical thinking				
To understand the advantages of Python as a suitable language for data analysis		Dialogue and discussion				



Unit Four: python programming language

Analyzes the relationships between scores in different subjects through results and graphs.	Lesson 1 practical application of data analysis from an Excel file Lives	Brainstorming	Electronic board-book-presentation -	Interact wi presentation	that the student did with his classmates/Oral questions	Creating formulas in Excel
learn how to import an Excel file containing student grades and view the basic data		Critical thinking				Working with Python
Performs some calculations (calculating averages, finding the highest and lowest scores in each subject)	Lesson 2 conditional statements in Python Applications	Dialogue and discussion				
Applies some examples of functions and how to create and call them to organize code.		Brainstorming				Creating loops
Explains how to use loops to repeat programming commands effectively.		Dialogue and discussion				
Understands the concept of conditional statements and how to use them for decision-making in programs		Problem solving				Analyzing data structures
Writes simple code for loops and functions.	Lesson 3 loops and functions	Practical Training				
Understands the concept of loops and functions.		Dialogue and discussion				Writing encryption codes
Explains the while loop for conditional repetition.		Problem solving				
Writes simple code using data structures in Python.	Lesson 4 data structures or collection	Practical Training				Transforming messages into secrets using the ?XOR operator
Understands data structures in Python and why we use them.		Dialogue and discussion				
Compares the uses of List, Tuple, and Dictionary.		Problem solving				Writing encryption codes
Uses Python functions to convert letters to numbers and vice versa.	Lesson 5 an introduction to cryptography using Python	Dialogue and discussion				
Performs some operations (encrypting/decrypting a single character by adding and subtracting a constant).		practical training				Transforming messages into secrets using the ?XOR operator
Explains the importance of encryption. In data and information protection.		Problem solving				
Explains the concept/function of bit-level operations.	Lesson 6 Python cryptography: how to turn messages into secrets using the XOR operator)	Dialogue and discussion				Transforming messages into secrets using the ?XOR operator
Uses the XOR operation to encrypt/decrypt simple messages.		practical training				
Writes a simple Python program to encrypt/decrypt text with a secret		Problem solving				